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TO : Colonel Marcy, Chief of Staff

DATE: 21 February 1952

FROM : Mr. Stauffer, 302L

SUBJECT: Pending Friedman Bills

1. The principal machines and devices covered by applications are:

a. SIGABA (serial number 70,412 - Inventors: Friedman and Rowlett) - Approximately 3330 of these machines were built at a cost of \$5,925,000 and were widely used.

b. SIGCUM (serial number 443,320 - Inventors: Friedman and Rowlett) - Approximately 3220 machines were built at a cost of \$1,719,325.05 and were widely used.

c. SIGFOY (serial number 549,086 - Inventor: Friedman) - Approximately 12,000 machines were built at a cost of \$1,617,884.25 and were never put into field use.

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2. Application serial numbers 682,096 and 107,244 covered the early approaches to the SIGABA. The machines represented by these applications were not made in large quantities nor widely used; total quantity, probably, less than 100.

3. Patent number 2,395,863 covers a strip cipher device (M-138) which was used to some extent but was not operationally important.

4. Application serial number 478,193 (now patent number 2,552,548) discloses a relay-operated circuit for providing facsimile privacy by combining an intelligence signal with a dummy signal by so-called Vernam addition. This device was never used although Mr. Friedman feels that it provided the basis for much of the later work in facsimile privacy.

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